TFT LCD MONITOR

USER MANUAL

HSDE Series

10.4”,12.1”,15”

15.6”,17”,18.5”

19”,21.5”,22”

23.6”,24”

26”-(HD),26”,

32”,42”

CE

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Warning:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

Caution:

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Explanation of Graphical Symbols

Danger: This symbol is intended to alert the user to the presence of un-insulated
"dangerous voltage" within the product's enclosure that may be of sufficient
magnitude to constitute a risk of electric shock to a person.

Warning: This symbol is intended to alert the user to the presence of important
operating and maintenance (servicing) instructions in the literature accompanying
the appliance.

Precautions

Safety----------

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat built-up. Do not place the unit on surfaces(rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

Installation----------

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust or mechanical vibration.

The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

Cleaning----------

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

Safety Precautions

Federal Communications Commission (FCC) Statement

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

● You are cautioned that changes or modifications not expressly approved by that party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received including interference that may cause undesired

About this user manual

This manual aims at assisting the user on how to operate the monitors described in this manual.
This manual is subject to rigid quality control. However, no guarantee can be given that mistakes are not present. We reserve the right to make changes to the manual without prior notice.
Before operating the appliance, please read this manual carefully and retain it for further reference. Verify that all appliance items are included in the delivery. Should items be missing, do not operate the appliance and contact your local dealer.
Never attempt to repair the appliance yourself. This should only be done by qualified service personnel.
Improper handling of the appliance will invalidate the warranty.

Items included in the delivery

1 x LCD monitor
1 x Power supply unit 12 V DC;[Except for the 26”/32”/42”]
1 x Power cord
1 x VGA cable
1 x Audio cable
1 x IR remote control
1 x User manual

1. IR remote control

(1). **Power:**
Press this button to turn the monitor on/off.

(2). **Zoom**:
Press this button to toggle between the different picture formats:
4:3 / 16:9 / 14:9 / Letter Box / Panorama / P2P / Fill

(3). **Mute:**
Press this button to disable the sound. Press this button again to turn the sound on again. Alternatively, you may use the volume buttons (+ or -).

(4). **Freeze**:
Press this button to freeze the picture (AV1, AV2, S-Video). Press this button again to disable the freeze picture and to re-establish the normal picture.

(5). **PC/HD, AV1/AV2, SV:**
You can select the appropriate signal source directly (PC = VGA and DVI).

(6). **Item:**
Hot key for OSD adjustments of contrast, brightness, hue, colour, sharpness, volume and RGB gain.

(7). **Source** *(also see page6):*
To switch the video inputs, please use the IR remote control included in the delivery *(please also see page6).*
This button is also used as „back“ and „exit“ function in the OSD menu.
Note:
If you need to press the source button several times, please make sure not to do this too fast but to wait approx. 3 seconds between each button pressing. Otherwise, the source button may not work properly.
Note:
The source button is also used to return to the previous mask.

(8). **OK / Menu *(not used for 10.4” and 12.1”):***
Press this button to call-up the OSD menu.
This button is also used as „OK“ and to confirm your selected settings in the OSD menu.

(9). **Select ▲/▼:**
Directional buttons up/down.

(10). **Display:**
Press this button to call-up screen information such as resolution, signal source, etc.

(11). **Picture:**
Press this button to toggle between the different picture modes:
Vivid, Standard, Gentle, User.

(12). **PIP:**
Press this button to select the picture-in-picture function. Define the size of the sub picture:
Small, Medium, Large, MLSR, Full, None.

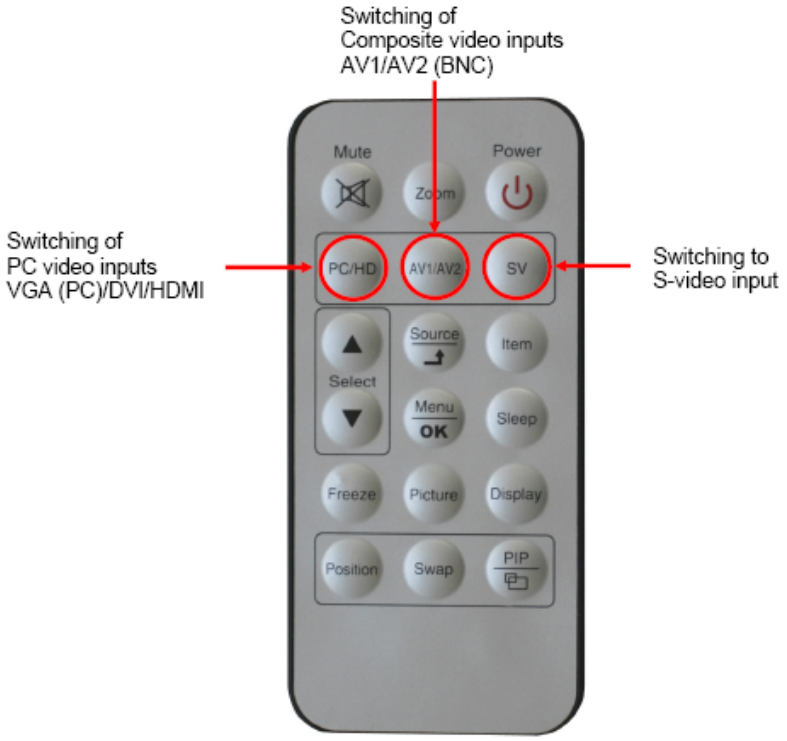
(13). **Swap:**
When in PIP mode, press the swap button to switch the main picture and the sub picture.
The swap button is only active if you have defined a sub-picture before (see above).

(14). **Position:**
When in PIP mode, press the position button to define the position of the sub-picture:
Either in one of the four screen corners or centred.

(15). **Sleep*:***
Use the ▲▼ buttons to define when the monitor should switch to sleep mode:
After 10, 20, 30, 60, 90, 120, 150, 180 minutes.

Important note on video input switching:
Please use the IR remote control (included in the delivery) to select the appropriate video input. The buttons highlighted below enable you to quickly switch between the video inputs.

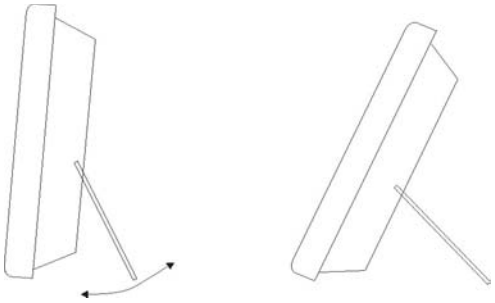
Note:
Please connect the appropriate video source to the monitor prior to selecting a video input.



2 LCD monitor Mounting Guide

A. Desktop

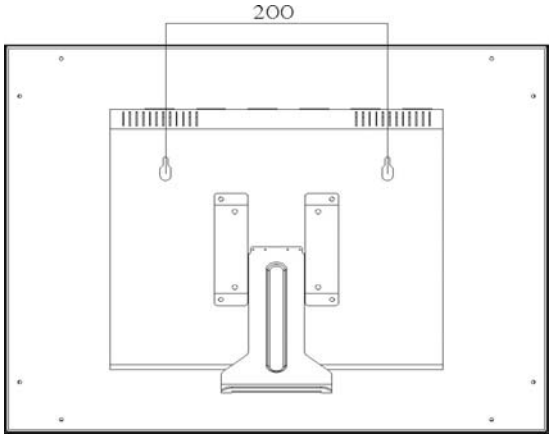
Adjust the viewing angle of LCD to fit most comfortable monitoring status.



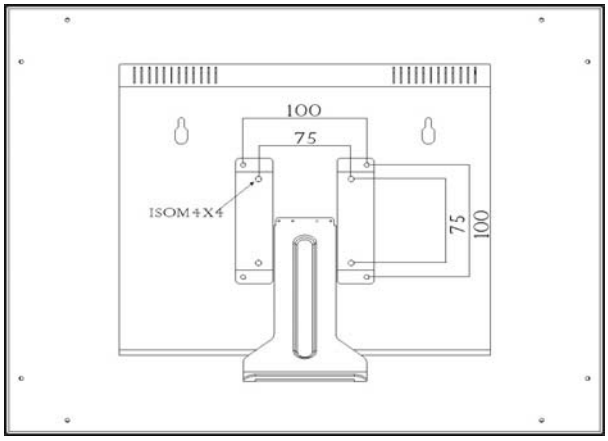
B. Wall mount

Free your space with wall mount design.

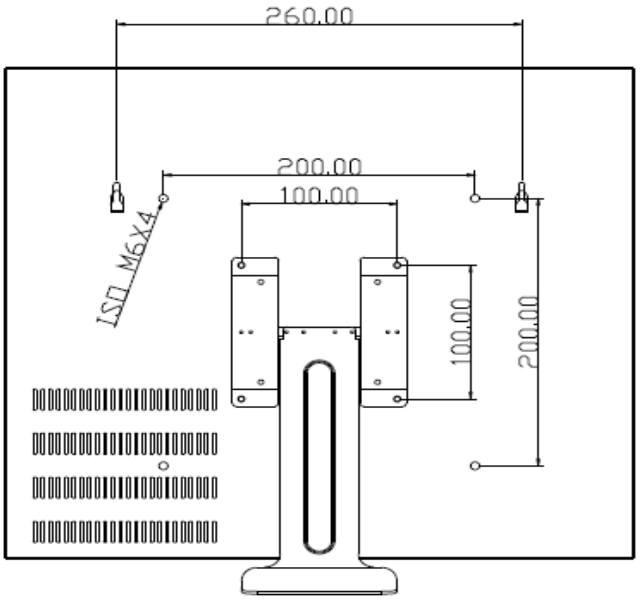
Please follow the fix-hole size in back panel to install the LCD to the wall.



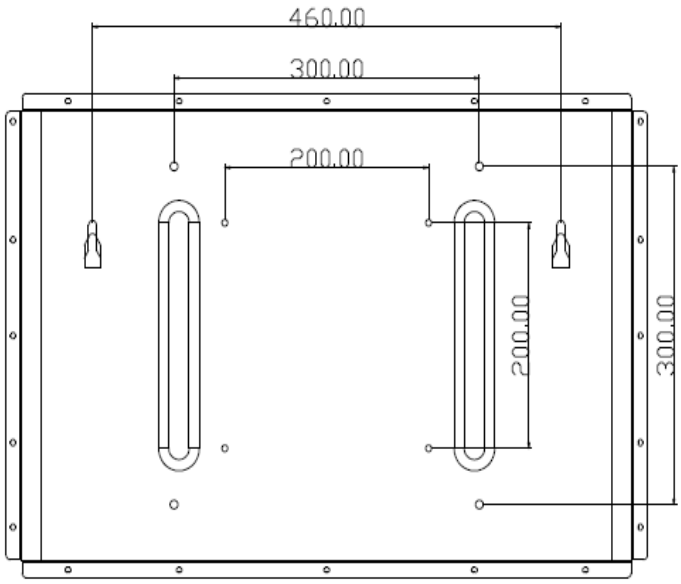
C. VESA Bracket



10.4”/12.1”/15”/15.6”/17”/18.5”
19”/21.5”/22”/23.6”/24”


260.00
200.00
100.00
ISO M6X4
100.00
200.00

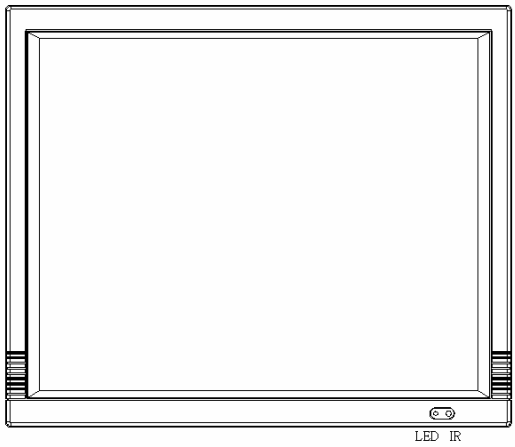
26”/32”


460.00
300.00
200.00
200.00
300.00

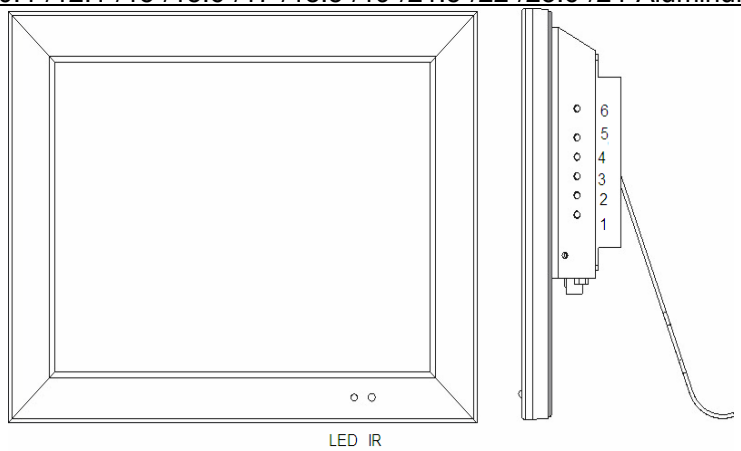
42”

3 Monitor controls

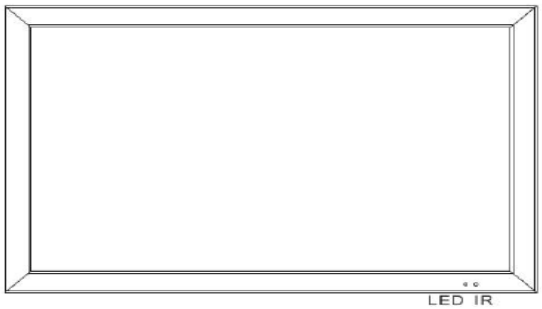
15’/17”/19” Plastic

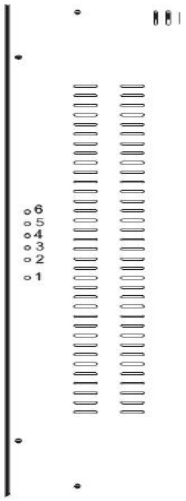


10.4”/12.1”/15”/15.6”/17”/18.5”/19”/21.5”/22”/23.6”/24”Aluminum



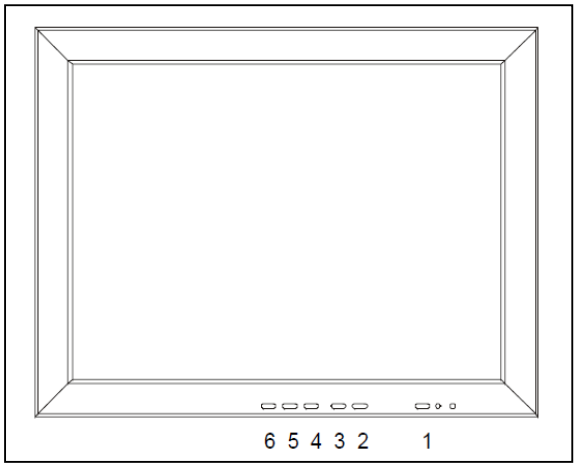
26”/32”/42 Aluminium

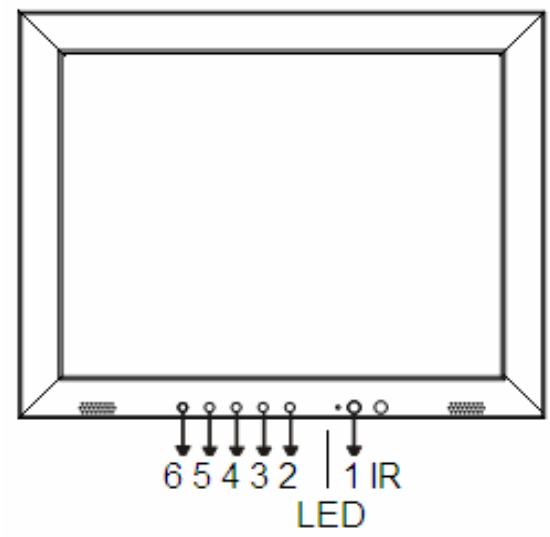




6 5 4 3 2 1 LED IR

10.4”/12.1”/15”/17”/19”/ Aluminium





(1). Power

Turn the monitor on/off.
LED: Green: Monitor on
Red: Standby mode (no input signal)

(2./3). Adjust Up / Down ▲/▼

Increase or decrease the values in the OSD menu:
Up: Increase the values.
Down: Decrease the values.

(4). Item/Select:

Hot key for OSD adjustments of contrast, brightness, hue, colour, sharpness, volume and RGB gain.

(5). Menu/Function *(not used for 104AV-HSDE and 121AV-HSDE):*

Press this button to call-up the OSD menu.
This button is also used as „OK“ and to confirm your selected settings in the OSD menu.

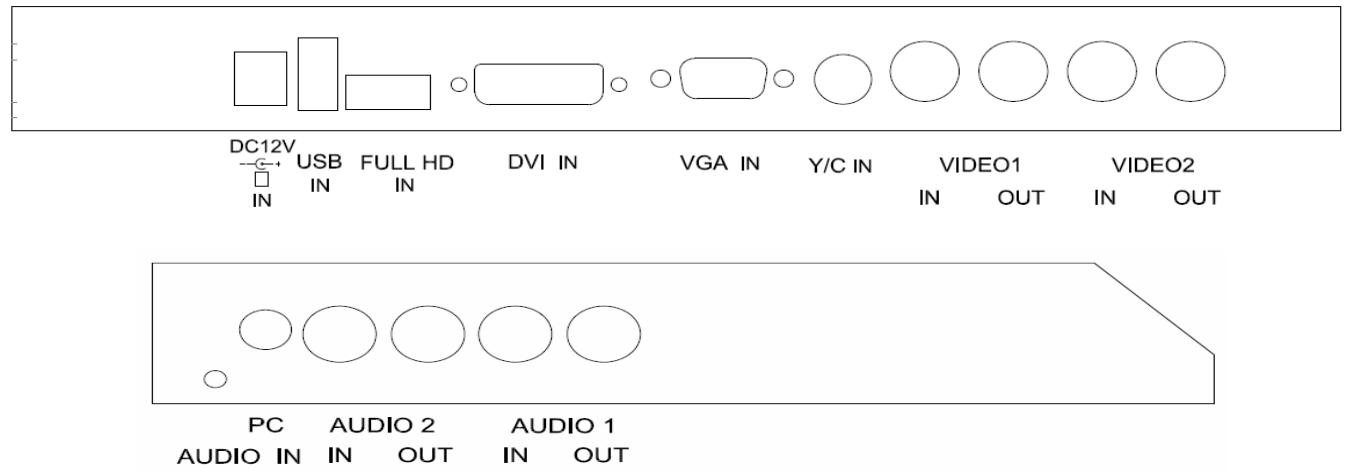
(6). Source:

To switch the video inputs, please use the IR remote control included in the delivery *(please also see page 6).*
This button is also used as „back“ and „exit“ function in the OSD menu.
Note: If you need to press the source button several times, please make sure not to do this too fast but to wait approx. 3 seconds between each button pressing. Otherwise, the source button may not work properly.

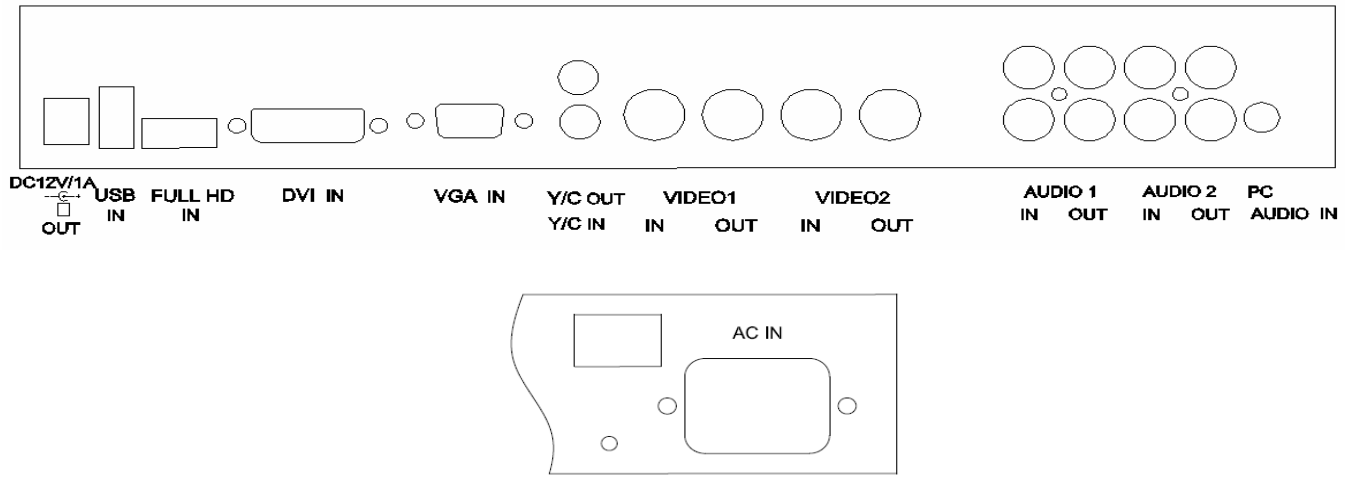
*******Push “Menu” and “Item” into key-lock mode, and push again into unlock.***

4. Connections

10.4”~24”



26”~42”



5. Monitor settings via OSD menu

Various monitor settings can be made using the OSD menu (On Screen Display).
Press the Menu/OK button to call-up the OSD main menu. Here you can make adjustments to the following items:

- Video
- Audio
- Setting
- PC (at PC input signal)

Use the ▲/▼ buttons to toggle between the different items.
Press the Menu/Ok button again to select the appropriate item.

5.1 Video

Once you have selected the item „Video“, use the ▲▼ buttons to increase/decrease the values.
Press the source button to return to the previous menu item.
Note: If you need to press the source button several times, please make sure not to do this too fast but to wait approx. 3 seconds between each button pressing. Otherwise, the source button may not work properly.
Press the menu button to call-up the OSD menu and to confirm your selection.

Item	Description
Picture Mode	Use the ▲▼ buttons to select the picture mode: Vivid, Standard, Gentle, User.
Brightness	Use the ▲▼ buttons to increase/decrease the screen brightness.
Contrast	Use the ▲▼ buttons to increase/decrease the screen contrast.
Hue	Use the ▲▼ buttons to increase/decrease the hue.
Saturation	Use the ▲▼ buttons to increase/decrease the saturation.
Sharpness	Use the ▲▼ buttons to increase/decrease the sharpness.
Noise Reduction	Use the ▲▼ buttons to select the level of noise reduction: Off, Low, Mid, High.
Colour Temp.	Use the ▲▼ buttons to select the colour temperature: Warmer, Warm, Normal, Cool, Cooler.
RGB Gain	Use the ▲▼ buttons to change the RGB gain (colour values)

5.2 Audio

Once you have selected the item „Audio“, use the ▲▼ buttons to increase/decrease the values.
Press the source button to return to the previous menu item.
Note: If you need to press the source button several times, please make sure not to do this too fast but to wait approx. 3 seconds between each button pressing. Otherwise, the source button may not work properly.
Press the menu button to call-up the OSD menu and to confirm your selection.

Item	Description
Audio Bass	Use the ▲▼ buttons to adjust the bass.
Audio Treble	Use the ▲▼ buttons to adjust the treble.
Audio Balance	Use the ▲▼ buttons to adjust the balance.
SRS True Surround	Use the ▲▼ buttons to turn the surround on/off.
Auto Volume	Use the ▲▼ buttons to adjust the volume.
Audio Effect	Use the ▲▼ buttons to adjust the effect: Normal, Club, Dance, Live, Pop, Rock, User.

5.3 Setting

Once you have selected the item „Setting“, use the ▲▼ buttons to increase/decrease the values.
Press the source button to return to the previous menu item.
Note: If you need to press the source button several times, please make sure not to do this too fast but to wait approx. 3 seconds between each button pressing. Otherwise, the source button may not work properly.
Press the menu button to call-up the OSD menu and to confirm your selection.

Item		Description
Language	Use the ▲▼ buttons to select the language.	
PIP	PIP Mode	Use the ▲▼ buttons to set the size of the sub-picture: None, Small, Medium, Large, MLSR 4:3, MLSR Full Note: „None“ means that the PIP function is disabled.
	PIP Position	Use the ▲▼ buttons to define the position of the sub-picture. Note: This function is only active if you have previously defined a sub picture.
	PIP Source	Use the ▲▼ buttons to select the source of the sub-picture.
	PIP Swap	Press the menu/OK button to swap the main picture and the sub picture. Note: This function is only active if you have previously defined a sub picture.

Sleep Mode	Use the ▲▼ buttons to define when the monitor should switch to sleep mode: After 10, 20, 30, 60, 90, 120, 150, 180 minutes.
Image Auto Move	Use the ▲▼ buttons to set the screen saver:[Screen protector-Anti blur] Off or after 10, 30, 60, 90, 120, 180 minutes.
Gamma	Use the ▲▼ buttons to set the gamma values.
Reset All Settings	Press the menu/OK button to restore the factory settings.
USB update	Update Firmware.

5.4 PC

Once you have selected the item „PC“, use the ▲▼ buttons to increase/decrease the values. Press the source button to return to the previous menu item.

Note: If you need to press the source button several times, please make sure not to do this too fast but to wait approx. 3 seconds between each button pressing. Otherwise, the source button may not work properly.

Press the menu button to call-up the OSD menu and to confirm your selection.

Item	Description
Auto Adjust	Press the menu/Ok button to automatically adjust for the best possible picture.
Horizontal Position	Use the ▲▼ buttons to position the picture horizontally.
Vertical Position	Use the ▲▼ buttons to position the picture vertically.
Phase	Use the ▲▼ buttons to fine-tune the focus, clarity and picture stability.
Clock	Use the ▲▼ buttons to fine-tune the picture size.

PC timing:

Mode	Resolution
1	800 x 600 @ 60
2	800 x 600 @ 72
3	800 x 600 @ 75
4	1024 x 768 @ 60
5	1024 x 768 @ 70
6	1024 x 768 @ 75
7	1280 x 1024 @ 60
8	1280 x 1024 @ 75
9	1360 x 768 @ 60
10	1440 x 900 @ 60
11	1920 x 1080@ 60

6. Special features

- Special Video Processor.
- PIP Control Function (Only PC/Video).[Video/Video option]
- Screen protector (Anti-blur /Image auto move).
- NTSC/PAL Auto Switch.
- 3D De-interlace Technology.
- 3D Comb Filter Technology.
- Automatic Colour Control and Colour Killer.
- Luminance transient improvement (LTI), Chrominance transient improvement (CTI)
- 1080p Supported .
- Directional zoom engine.
- Video out support auto termination (75 Ohms).
- Build-in 2W speaker, 42” 7W+7W speaker.
- Support IR remote controller.
- VESA standard bracket 75/100mm for 10.4”/12.1”/15”/15.6”/17”/18.5”/19”/20"/21.6/22”/23.6”/24”. 100/200mm for 26”/32”. 300mm for 42”.

7. Technical specifications

Monitor model	**10.4”-HSDE**	**12.1”-HSDE**
System	PAL / NTSC	
LCD panel	10.4“	12.1“
Visible area (mm)	211.2 x 158.4	246 x 184.5
Picture format	4 : 3	4:3
Max. resolution	800 x 600	800 x 600
Pixel dot pitch (mm)	0.264 x 0.264	0.3075 x 0.3075
Colours	262 K	262K
Brightness	400 cd/m² [LED]	450 cd/m² [LED]
Contrast	700 :1	700:1
Response time (Tr/Tf)	30 ms	35 ms
View angle (U/D/L/R)	60/80/80/80	65/75/80/80
Video input/output	2 x / 2x Composite (BNC)	
S-Video input	1 x 4 Pin Mini Dim	
Full HD input	1 x HDMI	
Audio input/output	2 x / 2x (RCA)	
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input	
Speaker	1 x built-in speaker (2 watt)	
3D Comb Filter	Yes	
3D De-Interlace function	Yes	
Picture-in-Picture (PIP)	Yes (video/PC)	
OSD setting	Yes	
Power input	AC 100-240V 50/60Hz, Adapter DC 12V/5A	
Power consumption	Approx. 12 watt	Approx. 13.5 watt
Dimensions (WxHxD) mm	266 x 214 x 60	300 x 239 x 61
Weight	2.3 kg	2.6 kg
Operating temperature	0° to 40° C	

Subject to technical changes without prior notice. Error excepted.

Monitor model	**15”-HSDE**	**15.6”-HSDE**
System	PAL / NTSC	
LCD panel	15“	15.6“
Visible area (mm)	304 x 228	344.2 x 193.5
Picture format	4:3	16:9
Max. resolution	1024 x 768	1366 x 768
Pixel dot pitch (mm)	0.297 x 0.297	0.252 x0.252
Colours	16.7M	16.7M
Brightness	250 cd/m²	300 cd/m² [LED]
Contrast	600 :1	500:1
Response time (Tr/Tf)	6/2 ms	6/2 ms
View angle (U/D/L/R)	80/80/80/80	80/80/85/85
Video input/output	2 x / 2 x Composite (BNC)	
S-Video input	1x 4 Pin Mini Dim	
Full HD input	1 x HDMI	
Audio input/output	2 x / 2x (RCA)	
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input	
Speaker	1 x built-in speaker (2 watt)	
3D Comb Filter	Yes	
3D De-Interlace function	Yes	
Picture-in-Picture (PIP)	Yes (video/PC)	
OSD setting	Yes	
Power input	AC 100-240V 50/60Hz, Adapter DC 12V/5A	
Power consumption	Approx. 21 watt	Approx. 19 watt
Dimensions (WxHxD) mm	357 x 283 x 64 385 x 310 x80	401.5 x 251x 60.3
Weight	3.2 kg/4.2kg	3.4kg
Operating temperature	0° to 40° C	

Subject to technical changes without prior notice. Error excepted.

Monitor model	**17”-HSDE**	**18.5”-HSDE**	**19”-HSDE**
System	PAL / NTSC		
LCD panel	17”	18.5”	19”
Visible area (mm)	338 x 270	409.8 x 230.4	376 x 301
Picture format	4:3	16:9	4:3
Max. resolution	1280 x 1024	1366 x 768	1280 x 1024
Pixel dot pitch (mm)	0.264 x 0.264	0.3 x 0.3	0.098 x 0.249
Colours	16.7M	16.7M	16.7M
Brightness	250 cd/m² | 400 cd/m²	250 cd/m² [LED]	250 cd/m² [LED]
Contrast	1000 :1	1000:1	1000:1
Response time (Tr/Tf)	1.2/3.8 ms	3.6/1.4 ms	1.3/3.7 ms
View angle (U/D/L/R)	80/80/80/80	80/80/85/85	80/80/85/85
Video input/output	2 x / 2x Composite (BNC)		
S-Video input	1 x 4 Pin Mini Dim		
Full HD input	1 x HDMI		
Audio input/output	2 x / 2x (RCA)		
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input		
Speaker	1 x built-in speaker (2 watt)		
3D Comb Filter	Yes		
3D De-Interlace function	Yes		
Picture-in-Picture (PIP)	Yes (video/PC)		
OSD setting	Yes		
Power input	AC 100-240V 50/60Hz, Adapter DC 12V/5A		
Power consumption	Approx. 30 watt	Approx. 21 watt	Approx. 25 watt
Dimensions (WxHxD) mm	391 x 352 x 69 420 x 355 x 80	464.4 x 285 x 63.2	430 x 356 x 66.7
Weight	3.9kg/5.7kg	4.2 kg	5.5kg
Operating temperature	0° to 40° C		

Subject to technical changes without prior notice. Error excepted.

Monitor model	**21.5”-HSDE**	**22”-HSDE**
System	PAL / NTSC	
LCD panel	21.5“	22“
Visible area (mm)	476.6 x 268.1	473.7 x 296.1
Picture format	16:9	16:9
Max. resolution	1920 x 1080	1680x1050
Pixel dot pitch (mm)	x	0.282 x 0.282
Colours	16.7M	16.7M
Brightness	250 cd/m² [LED]	250 cd/m² [LED]
Contrast	1000 :1	1000:1
Response time(Tr/Tf)	1.3/3.7 ms	3.6/1.4 ms
View angle (U/D/L/R)	80/80/85/85	80/80/85/85
Video input/output	2 x / 2x Composite (BNC)	
S-Video input	1 x 4 Pin Mini Dim	
Full HD input	1 x HDMI	
Audio input/output	2 x / 2x (RCA)	
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input	
Speaker	1 x built-in speaker (2 watt)	
3D Comb Filter	Yes	
3D De-Interlace function	Yes	
Picture-in-Picture (PIP)	Yes (video/PC)	
OSD setting	Yes	
Power input	AC 100-240V 50/60Hz, Adapter DC 12V/5A	
Power consumption	Approx. 22 watt	Approx. 23 watt
Dimensions (WxHxD) mm	532.3 x 323.3x 65	525 x 345x 65
Weight	5.7kg	6.0kg
Operating temperature	0° to 40° C	

Subject to technical changes without prior notice. Error excepted.

Monitor model	**23.6”-HSDE**	**24”-HSDE**
System	PAL / NTSC	
LCD panel	23.6“	24“
Visible area (mm)	521.2 x 293.2	531.3 x 298.8
Picture format	16:9	16:9
Max. resolution	1920 x 1080	1920x1080
Pixel dot pitch (mm)	0.2715 x 0.2715	0.276.7 x 0.276 .7
Colours	16.7M	16.7M
Brightness	300 cd/m²[LED]	250 cd/m² [LED]
Contrast	1000:1	1000:1
Response time(Tr/Tf)	1.5/3.5 ms	3.5/1.5 ms
View angle (U/D/L/R)	80/80/85/85	80/80/85/85
Video input/output	2 x / 2x Composite (BNC)	
S-Video input	1 x 4 Pin Mini Dim	
Full HD input	1 x HDMI	
Audio input/output	2x / 2x (RCA)	
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input	
Speaker	1 x built-in speaker (2 watt)	
3D Comb Filter	Yes	
3D De-Interlace function	Yes	
Picture-in-Picture (PIP)	Yes (video/PC)	
OSD setting	Yes	
Power input	AC 100-240V 50/60Hz, Adapter DC 12V/5A	
Power consumption	Approx. 24watt	Approx. 26 watt
Dimensions (WxHxD) mm	575.9 x 347.8 x 56.7	588.4 x 355.9 x 56.7
Weight	5.7kg	5.8kg
Operating temperature	0° to 40° C	

Subject to technical changes without prior notice. Error excepted.

Monitor model	**26”-HSDE**	**26”-HSDE (HD)**
System	PAL / NTSC	
LCD panel	26“	26“
Visible area (mm)	575.7 x 323.7	580 x 328.2
Picture format	16:9	16:9
Max. resolution	1366 x 768	1920 x 1080
Pixel dot pitch (mm)	0.4215 x 0.4215	0.4215 x 0.4215
Colours	16.7M	16.7M
Brightness	350 cd/m²	300 cd/m² [LED]
Contrast	3000 :1	3000:1
Response time(G to G)	6.5 ms	8 ms
View angle (U/D/L/R)	89/89/89/89	89/89/89/89
Video input/output	2 x / 2 x Composite (BNC)	
S-Video input/output	1 x /1x 4 Pin Mini Dim	
Full HD input	1 x HDMI	
Audio R/L input/output	2 x / 2x (RCA)	
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input	
Speaker	2 x built-in speaker (2 watt)	
3D Comb Filter	Yes	
3D De-Interlace function	Yes	
Picture-in-Picture (PIP)	Yes (video/PC)	
OSD setting	Yes	
Power input	AC 100-240V 50/60Hz	
Power consumption	Approx. 50watt	Approx.48 watt
Dimensions (WxHxD) mm	637.1 x 358.1 x 72.2	637.1 x 358.1 x 72.2
Weight	10.5 kg	11kg
Operating temperature	0° to 40° C	

Subject to technical changes without prior notice. Error excepted.

Monitor model	**32”-HSDE**	**42”-HSDE**
System	PAL / NTSC	
LCD panel	31.5“	42“
Visible area (mm)	698.4 x 392.8	930.2 x 523.2
Picture format	16: 9	16:9
Max. resolution	1920 x 1080	1920 x1080
Pixel dot pitch (mm)	0.36375 x 0.37375	0.4845 x 0.4845
Colours	16.7M	16.7M
Brightness	450 cd/m²[CCFL] 350 cd/m² [LED]	350 cd/m² [LED]
Contrast	5000:1[CCFL] 3000 :1[LED]	3000:1
Response time(G to G)	6.5ms	5.5 ms
View angle (U/D/L/R)	89/89/89/89	89/89/89/89
Video input/output	2 x / 2 x Composite (BNC)	
S-Video input/output	1 x / 1 x 4 Pin Mini Dim	
Full HD input	1 x HDMI	
Audio R/L input/output	2 x / 2 x (RCA)	
PC input	1 x VGA input (D-Sub 15 pin) 1 x DVI-D input 1 x audio input	
Speaker	2 x built-in speaker	
3D Comb Filter	Yes	
3D De-Interlace function	Yes	
Picture-in-Picture (PIP)	Yes (video/PC)	
OSD setting	Yes	
Power input	AC 100-240V 50/60Hz	
Power consumption	Approx.106W[CCFL] 50 watt[LED]	Approx. 75 watt
Dimensions (WxHxD) mm	761.6 x 455.2 x 75[LED] 785.6 x 477.2 x 115.3[CCFL]	994. 6 x 587.2 x 81
Weight	14kg[CCFL]13kg[LED]	28kg
Operating temperature	0° to 40° C	

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Appendixes

Troubleshooting

The tables provided below include some problems that the user may encounter while using the display and the corresponding solutions. Please refer to the contents of this section prior to contacting service personnel.

Problem	Possible Causes	Solutions
No picture	1. Is the power cable connected to the unit? 2. Is the unit turned on? 3. Is the signal cable connected to the unit? 4. Is the unit in power saving mode?	1. Make sure the power cable has been properly connected to the unit. 2. Turn on the unit. 3. Make sure the signal cable has been properly connected to the unit. 4. Press any key on computer keyboard.
Strange colour	1. Is the signal cable connected to the unit?	1. Make sure the signal cable has been properly connected to the unit.
Picture distortion	1. Is the signal cable connected to the unit? 2. Is the video input signal within the unit's specified frequency range?	1. Make sure the signal cable has been properly connected to the unit. 2. Make sure the input signal is within the unit's specified frequency range.
Picture is too dim	1. Have the unit's brightness and contrast settings been set to the lowest level?	1. Adjust brightness and contrast
Only sound but no picture	1. Is the connection of the input signal correct?	1. Check connection of input signal. 2. Make sure the signal cable has been properly connected.
Only picture but no sound	1. Is the signal cable connected to the unit? 2. Has the volume been set to the min level? 3. Is the audio cable connected to the unit?	1. Make sure the signal cable has been properly connected to the unit. 2. Adjust the volume to an appropriate setting. 3. Make sure the audio cable has been properly connected to the unit.

Please contact the customer service centre of your local dealer if you have any questions regarding the unit after reading the information provided above.